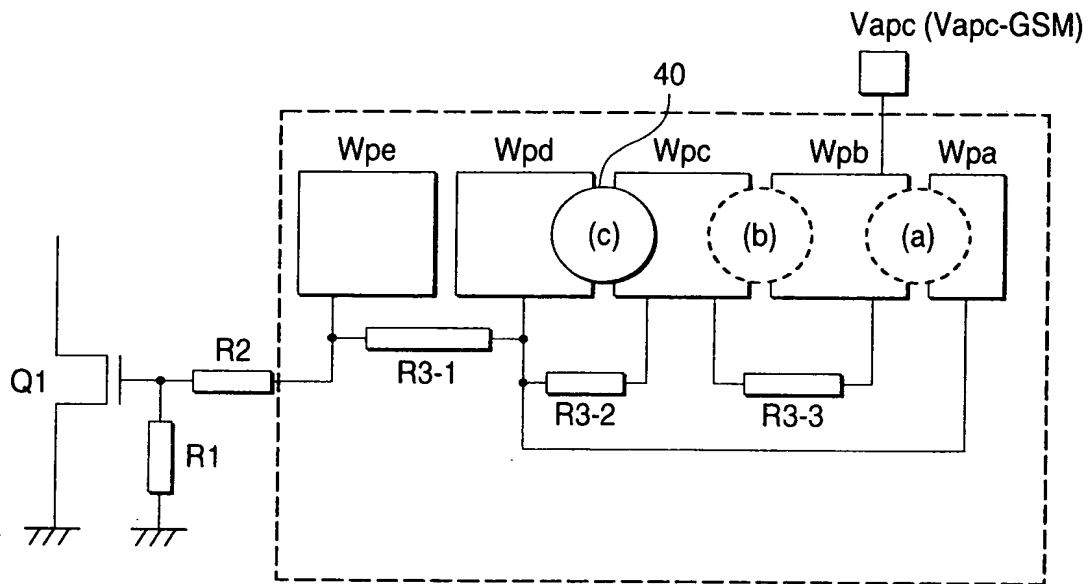


FIG. 1



- (a):  $R1/(R1 + R2 + (R3 - 1))$   
 (b):  $R1/(R1 + R2 + (R3 - 1) + (R3 - 2))$   
 (c):  $R1/(R1 + R2 + (R3 - 1) + (R3 - 3))$   
 (d): NO BONDING  
 $R1/(R1 + R2 + (R3 - 1) + (R3 - 2) + (R3 - 3))$

FIG. 2

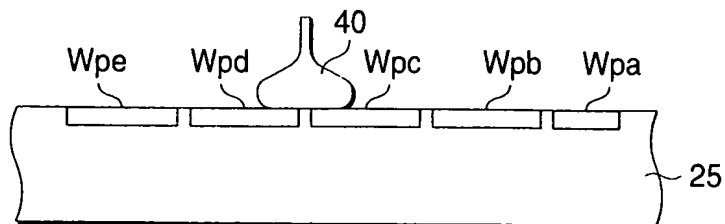


FIG. 3

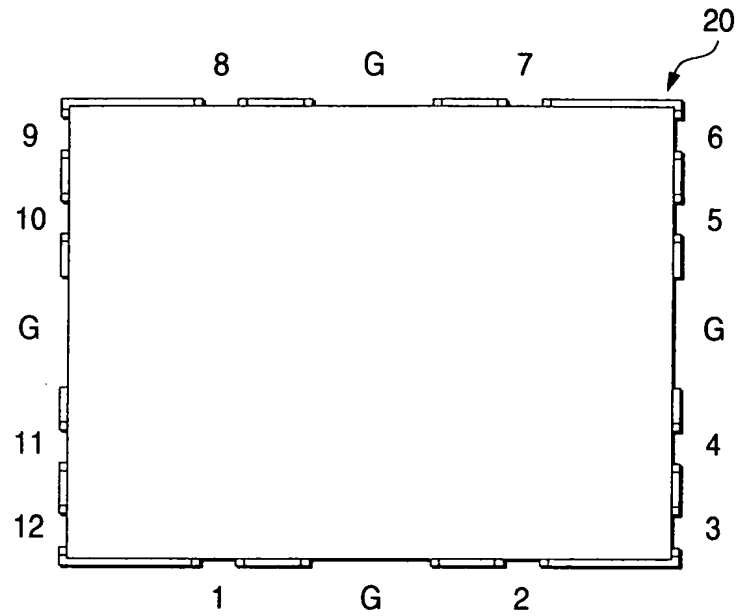


FIG. 4

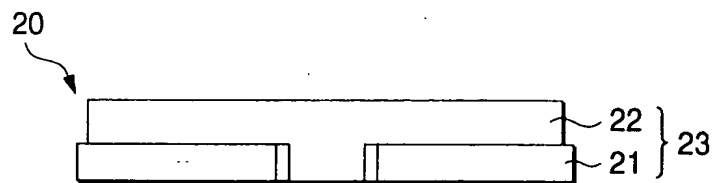


FIG. 5

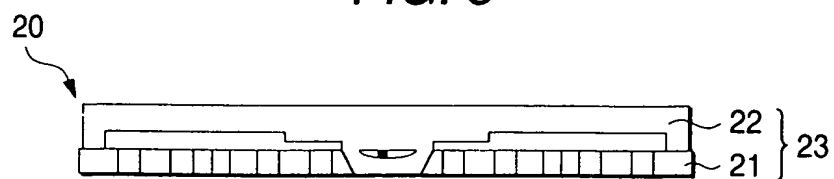


FIG. 6

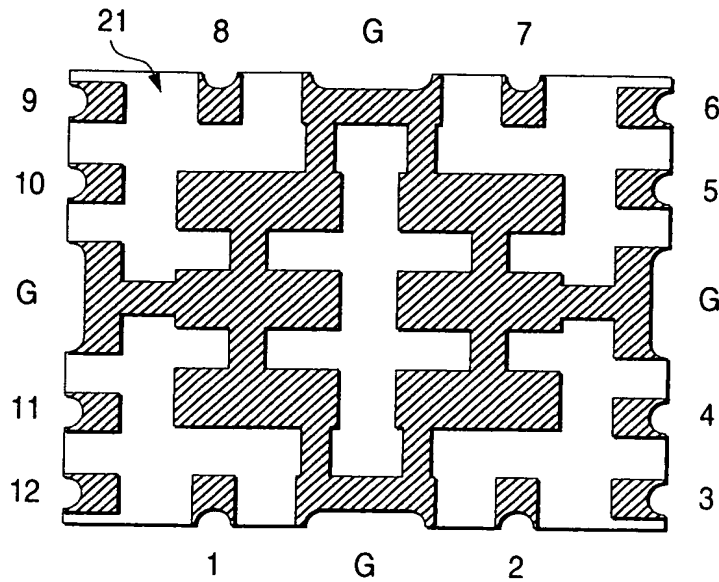
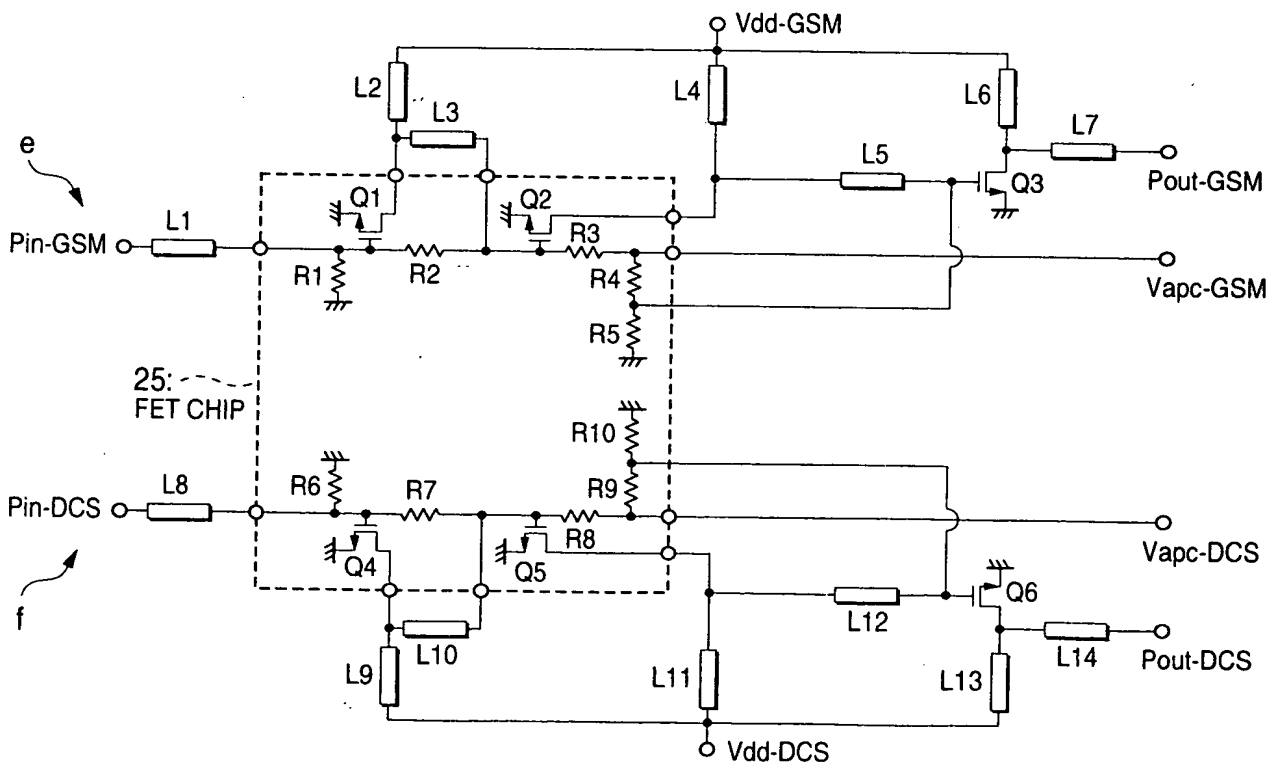


FIG. 7



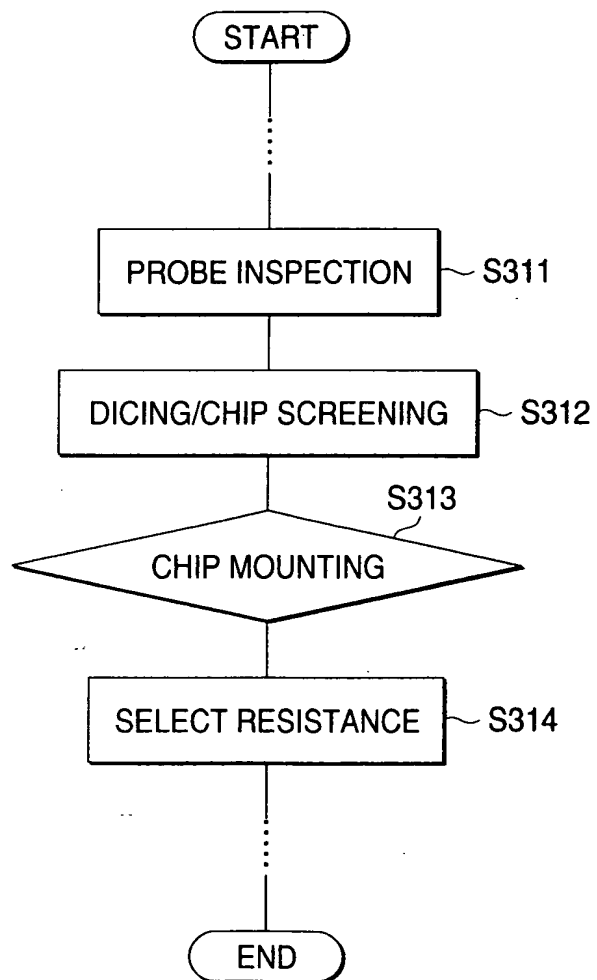
*FIG. 8*

FIG. 9

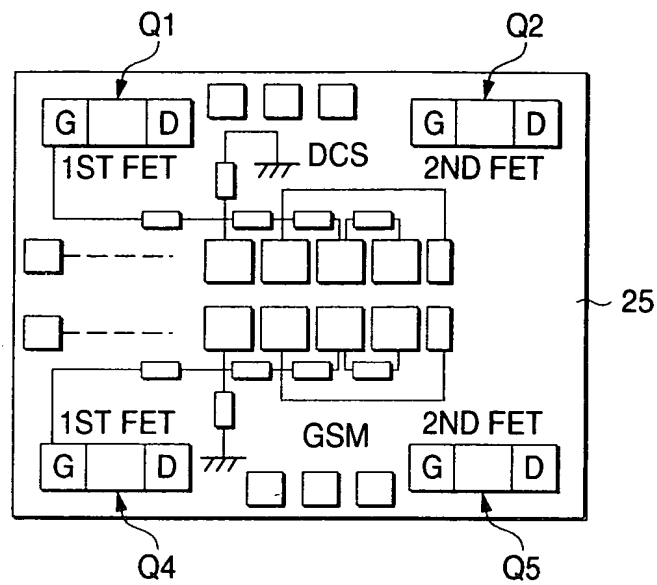
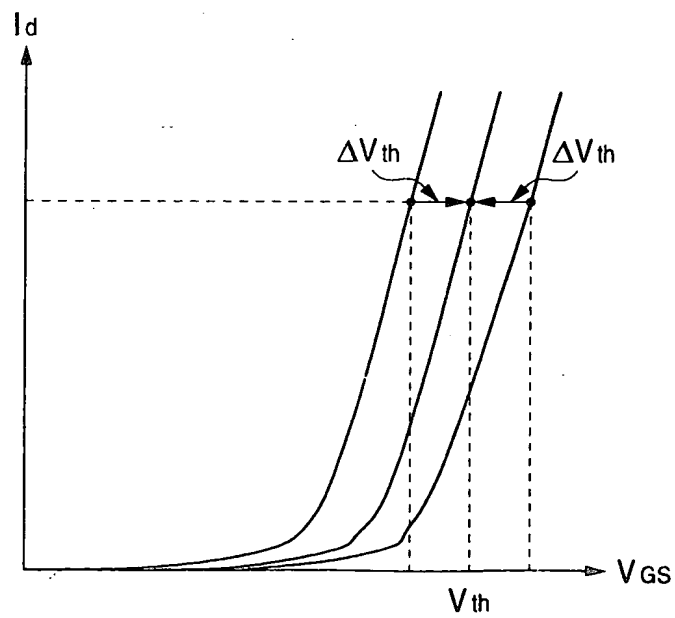


FIG. 10



*FIG. 11*

<div>HIGH ↑ ↓ LOW</div>	$V_{th}$	POSITION OF BALL BONDING
	(1) ~ (2)	(a)
	(3) ~ (4)	(b)
	(5) ~ (6)	(c)
	(7) ~ (8)	(d)

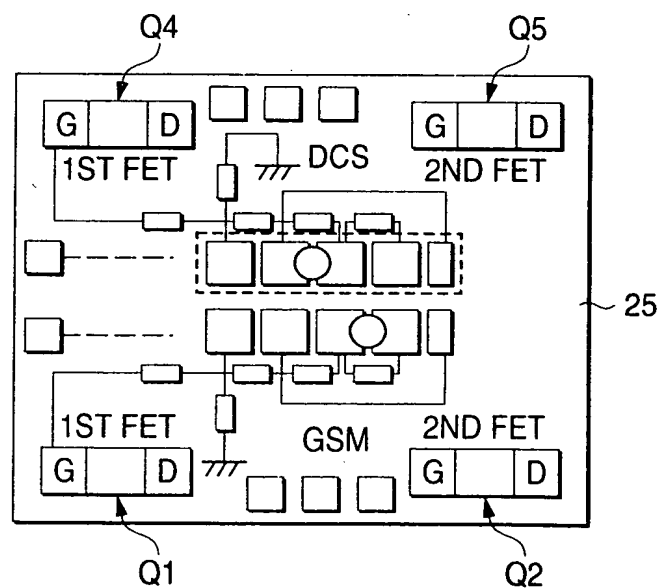
*FIG. 12*

FIG. 13

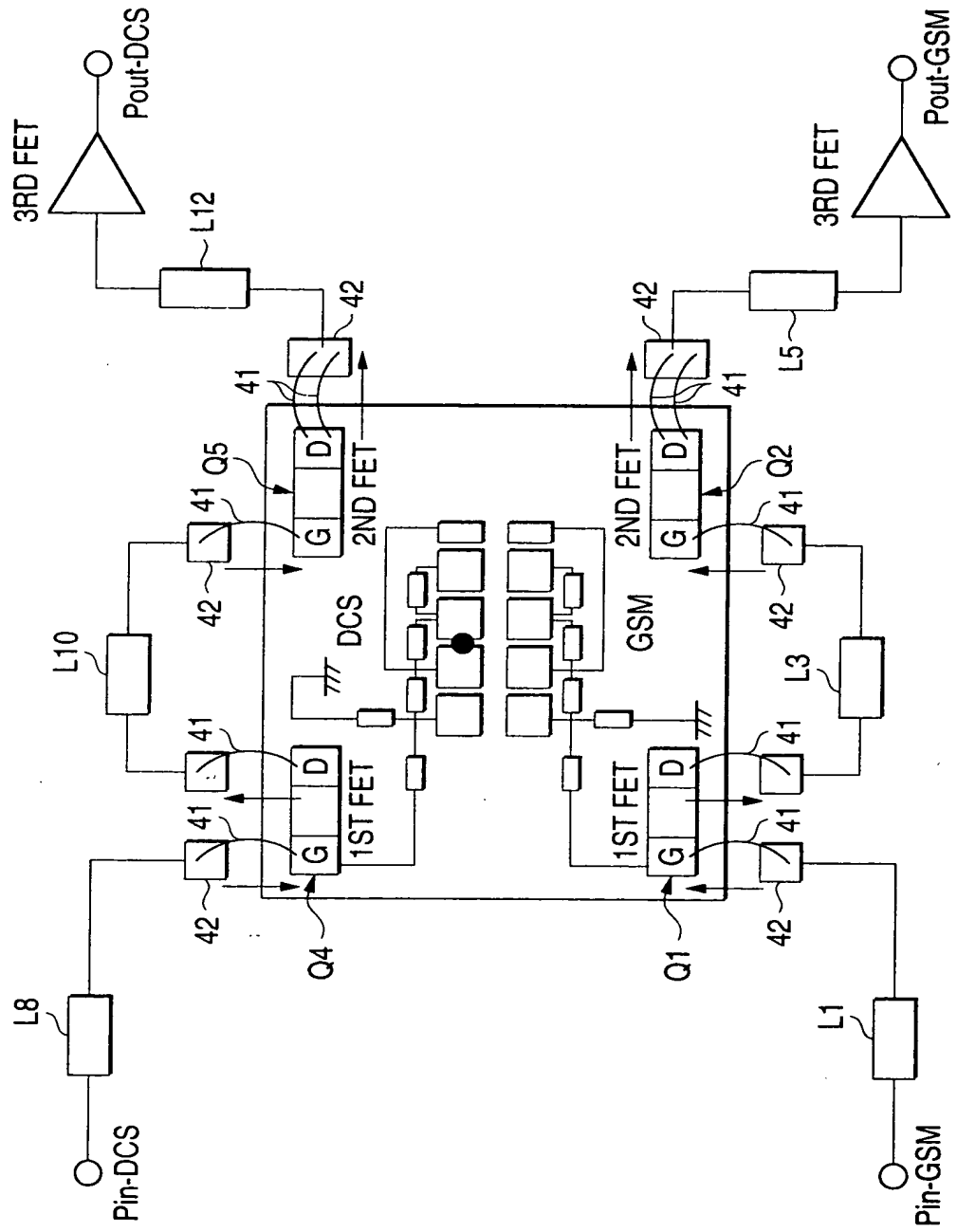


FIG. 14A

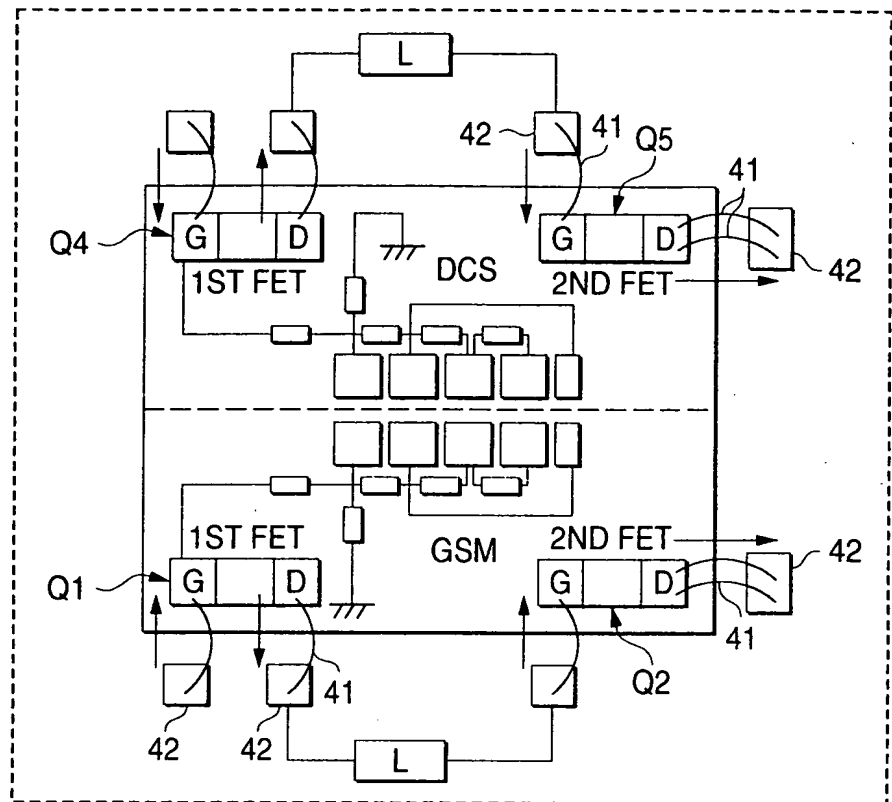


FIG. 14B

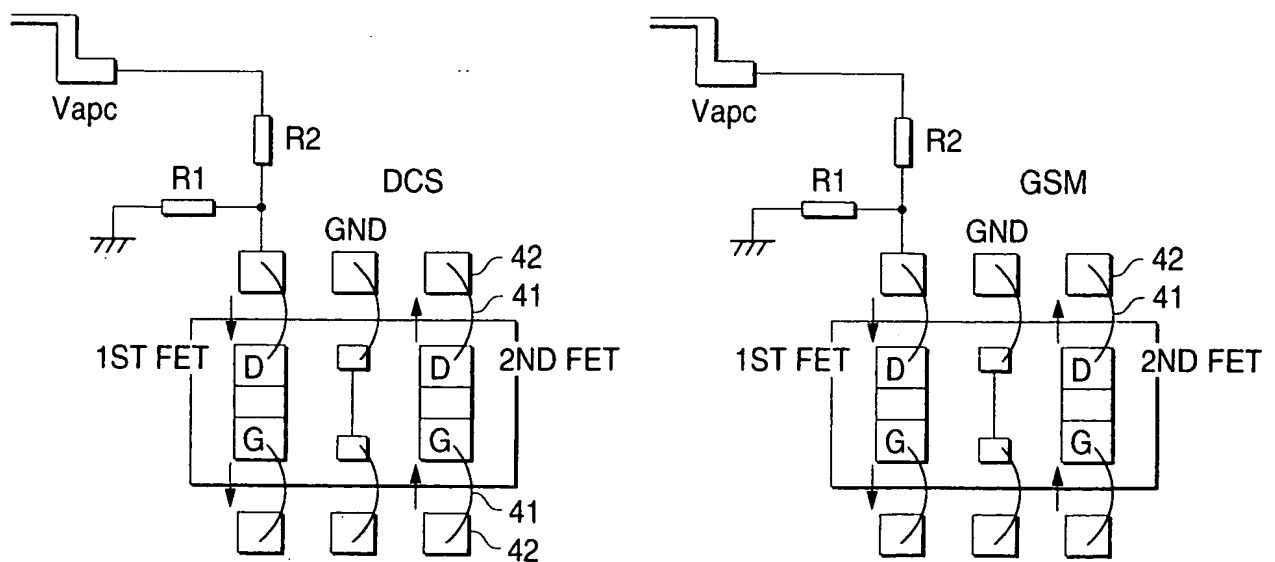




FIG. 15

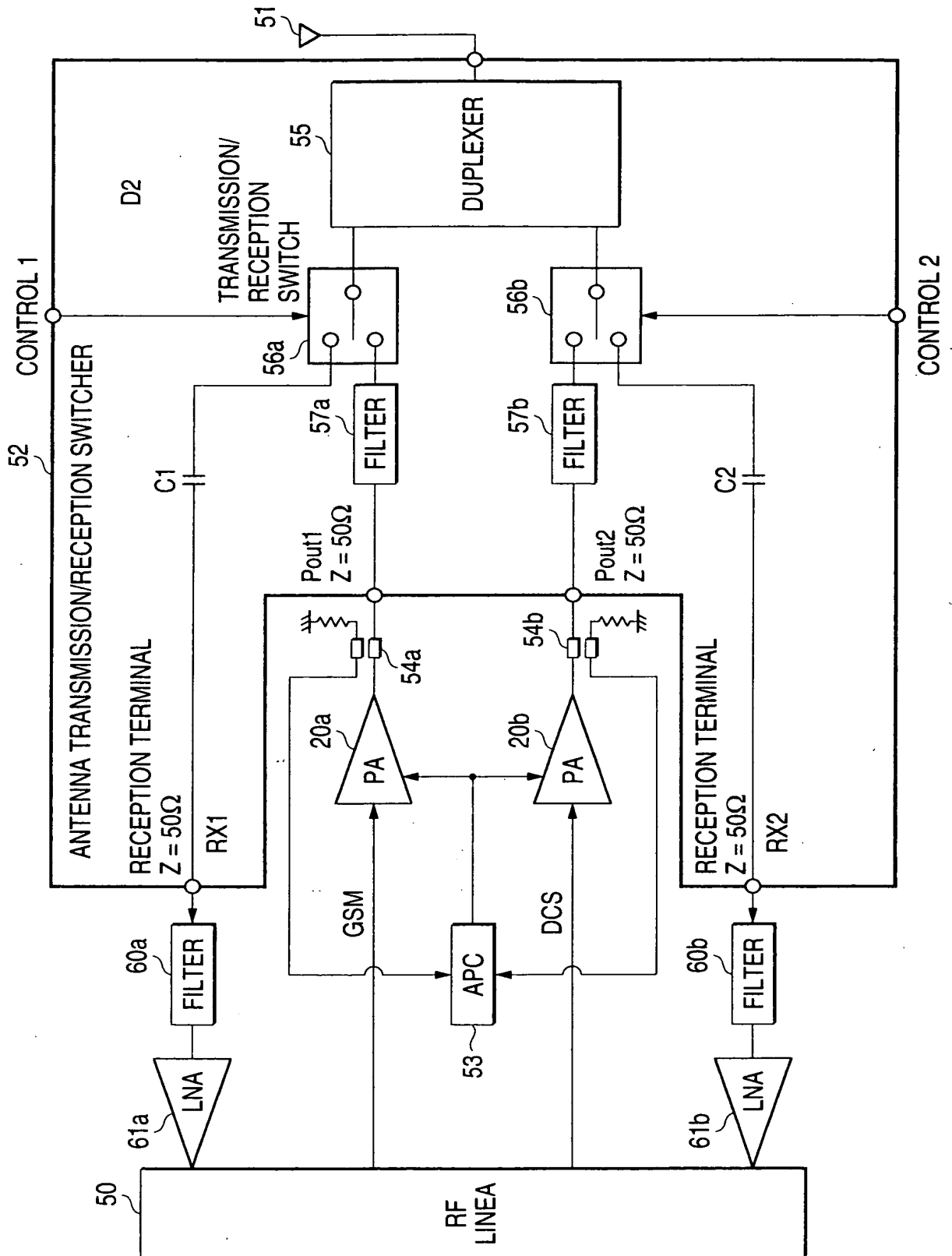


FIG. 16

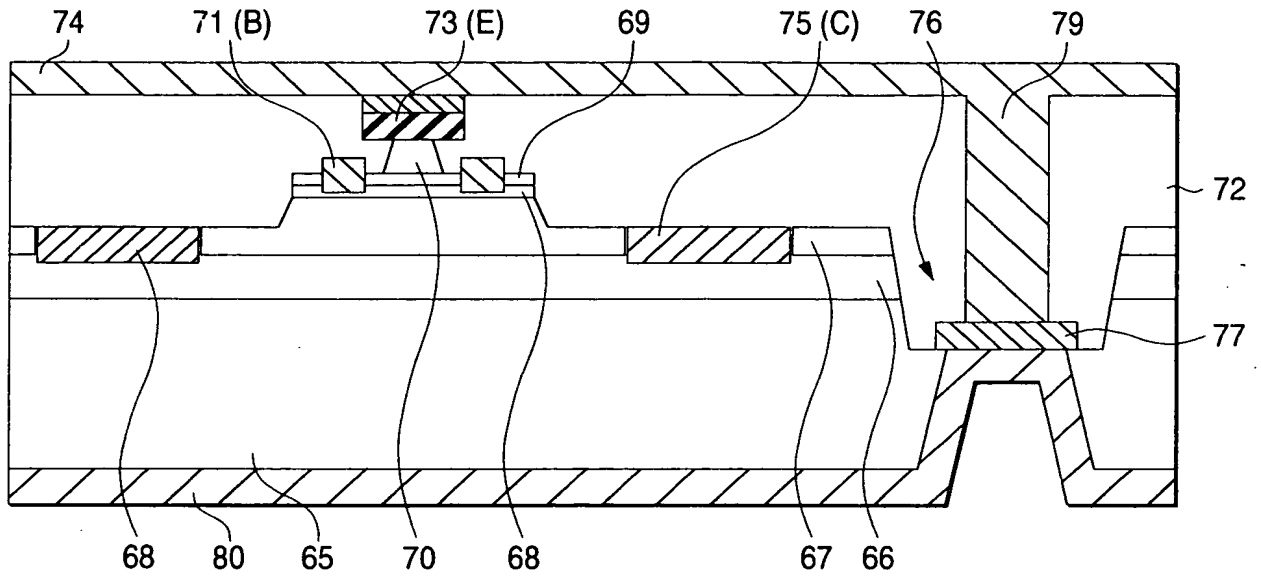
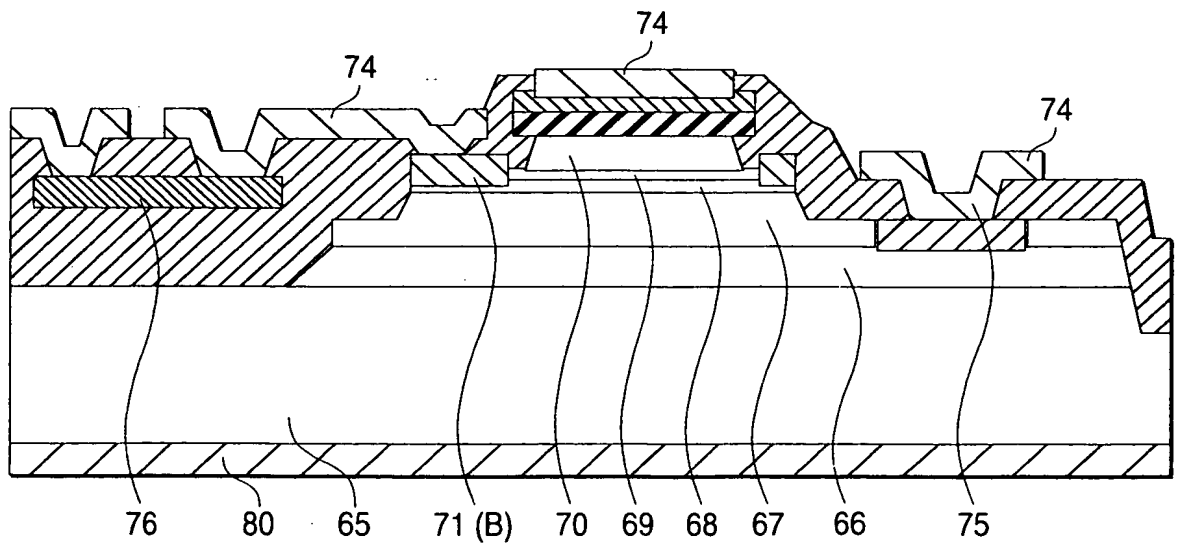


FIG. 17



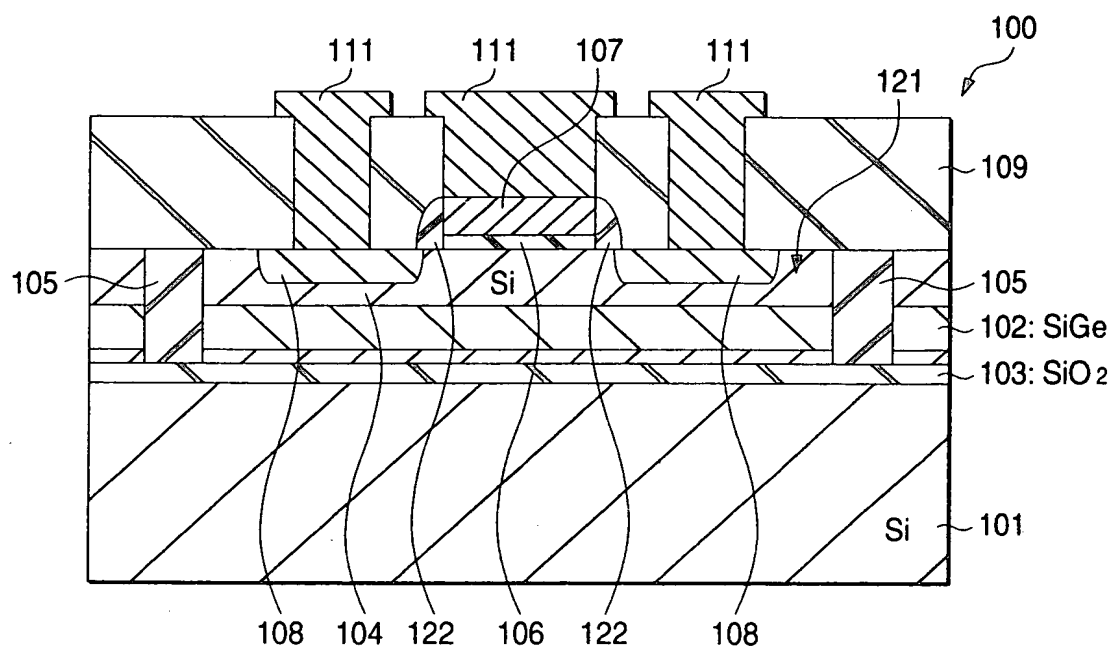


FIG. 19

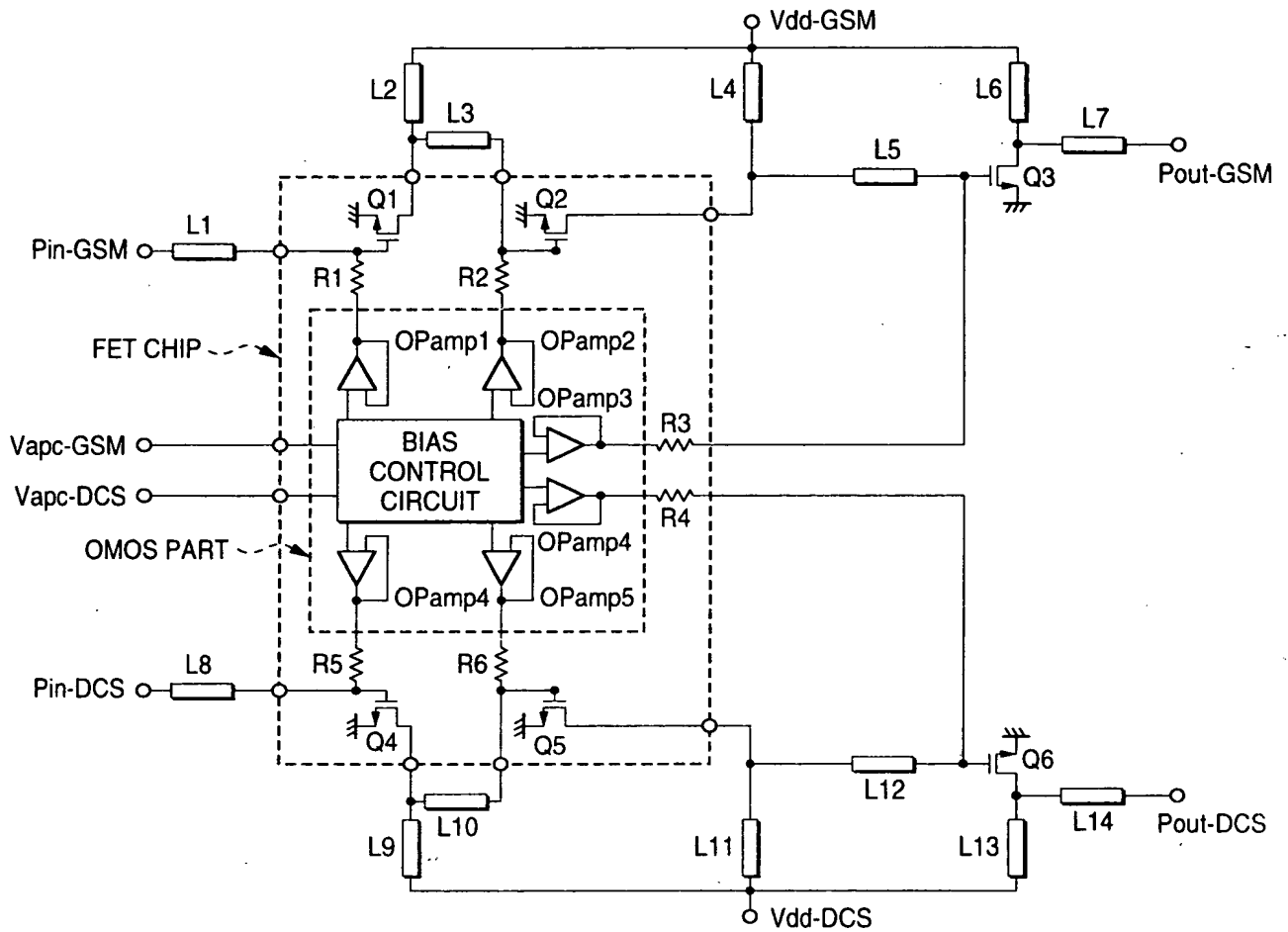


FIG. 20

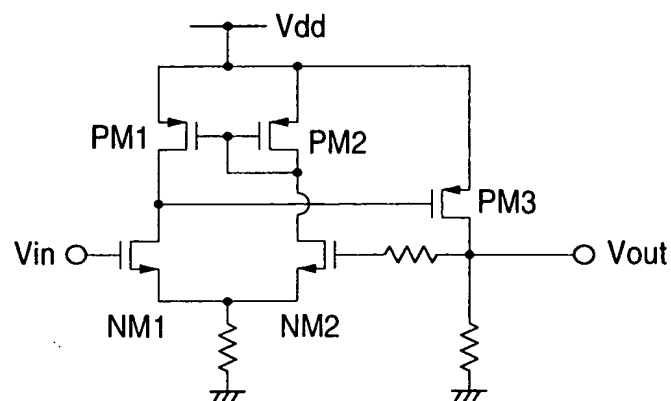


FIG. 21

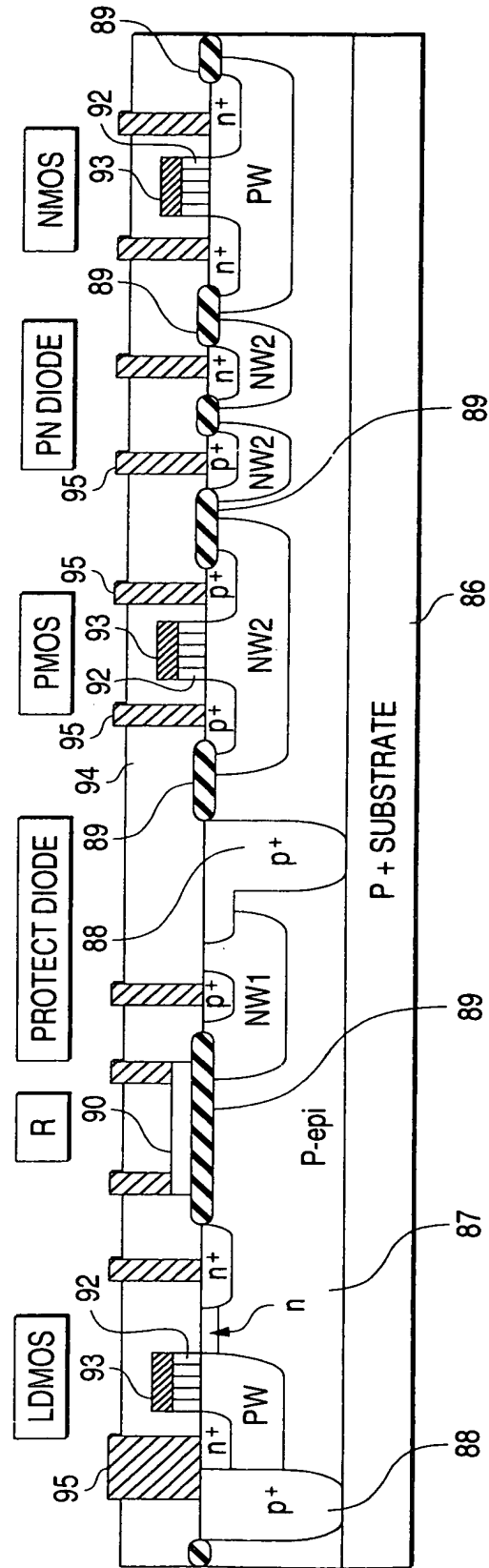


FIG. 22

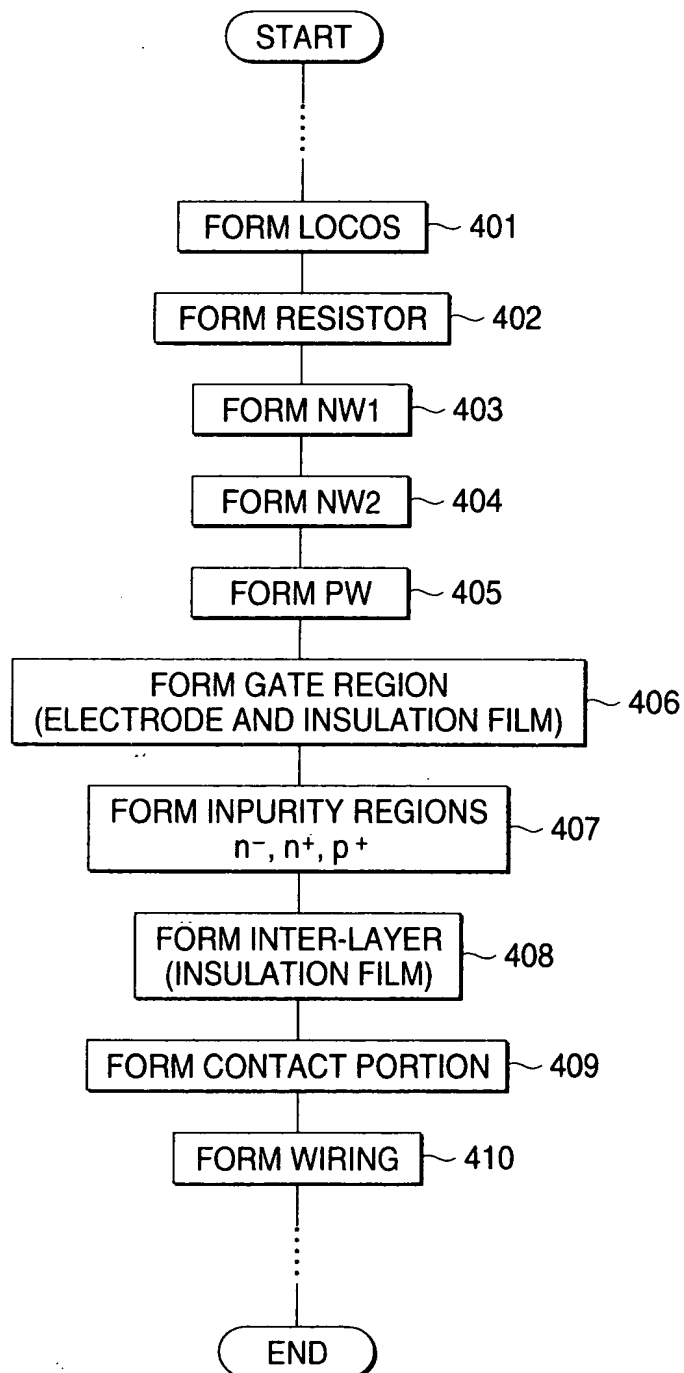


FIG. 23

